GOKDENIZ GOL

MECHANICAL ENGINEER | B.Sc. expected March 2027
Riga, Latvia | +371 224 644 59 | gokdeniz@gokdenizgol.com | LinkedIn: Gokdenizgol

PROFESSIONAL SUMMARY

Final-year Mechanical Engineering student at Riga Technical University, graduating in March 2027, with a focus on automotive and motorsport structures. For my bachelor's thesis, I am working on the design and topology optimization of a Formula Student front suspension upright, using SolidWorks for CAD modelling and ANSYS Mechanical for finite element analysis. I have hands-on workshop experience in vehicle maintenance, diagnostics and mechanical assembly. I am looking for a mechanical design or analysis engineering role and am available to start in April 2027.

BACHELOR'S THESIS

Topology Optimization of a Formula Student Suspension Upright **RTU, 2026 – 2027**

- Defining the design domain, load cases and hardpoints for a front upright (knuckle) based on FSAE suspension geometry.
- Running static structural FEA and topology optimization in ANSYS Mechanical to reduce mass while meeting stiffness and strength targets.
- Building the 3D model and manufacturing ready drawings in SolidWorks.

WORK EXPERIENCE

Mechanical Assistant – Mekanik Garage, Istanbul, Turkey **Jun 2025 – Aug 2025**

- Assisted master mechanics with maintenance, repair and mechanical assembly of high-performance and passenger vehicles.
- Supported diagnostics, part replacement and routine service operations under workshop safety procedures.

Automotive Technology Intern – ABC Renault Service, Istanbul, Turkey **Aug 2022 – Sep 2022**

- Assisted with diagnostic and maintenance processes for passenger vehicles; learned dealer workshop standards and workflows.

Data Processing Intern – Ersa Watches (CASIO), Istanbul, Turkey **Feb 2023 (2 weeks)**

- Organized sales data and turned raw data into structured reports and charts.

EDUCATION

B.Sc. Mechanical Engineering – Riga Technical University, Riga, Latvia **Jan 2024 – Mar 2027 (exp.)**
Preparatory year at RTU from Sep 2023. Relevant coursework: machine elements and gear design, transmissions, theoretical mechanics, thermodynamics, robot kinematics, electro-/pneumo-/hydro-automatics, CNC laboratory.

Associate degrees – Nisantasi University, Istanbul, Turkey **2021 – 2023**
Automotive Technology; Computer Programming.

SKILLS

- **CAD:** SolidWorks (part design, assemblies, technical drawings), AutoCAD (2D drafting)
- **Simulation / FEA:** ANSYS Mechanical (static structural, topology optimization), SolidWorks Simulation (static, frequency, buckling, design studies, adaptive mesh refinement)
- **Workshop:** vehicle diagnostics, mechanical assembly and disassembly, hand tools, workshop safety
- **Software:** Microsoft Office (Word, Excel, PowerPoint)
- **Languages:** Turkish (native), English (professional working proficiency)